

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a letters patent is sought on the invention entitled "**COMPOSITION FOR OXIDE CMP**," the specification of which was filed on **December 19, 1997** as United States Patent Application **Serial No. 08/994,894**; and

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim the benefit under Title 35, United States Code, § 119(e) and/or § 120 of any United States provisional applications and/or applications listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

08/774,488
(Appl. Serial No.)

December 30, 1996
(Filing Date)

Granted
(Status)

As a named inventor, I hereby appoint Rennie William Dover (Registration No. 36,503), Martha Ann Finnegan, Esq. (Registration No. 31,453), Bruce M. Gagala, Esq. (Registration No. 28,844), Robert F. Green, Esq. (Registration No. 27,555), A. Blair Hughes, Esq. (Reg. No. 32,901), John Kilyk, Jr, Esq. (Registration No. 30,763), Michelle B. Lando, Esq. (Registration No. 33,941) and Phyllis T. Turner-Brim, Esq. (Registration No. 39,864) as my attorneys with

full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

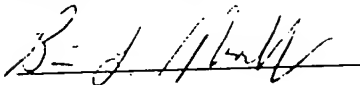
Please address all communications regarding this application to:

Phyllis T. Turner-Brim, Esq.
Cabot Microelectronics Corporation
870 N. Commons Drive
Aurora, Illinois 60504

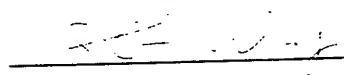
Direct all telephone calls to Phyllis T. Turner-Brim at (630) 375-5465.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor:	Gautam S. Grover
Inventor's Signature:	<u><i>G. S. Grover</i></u>
Date:	<u>12/1/00</u>
Residence:	925 Shoreline Drive Aurora, Illinois 60504
Post Office Address:	Same as above.
Citizenship:	<i>India</i>

Inventor: **Brian L. Mueller**
Inventor's Signature: 
Date: 11/3/00
Residence: 3235 Blaine Court, Aurora
Illinois 60504
Post Office Address: Same as above.
Citizenship: *United States of America*

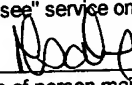
* * * * *

Inventor: **Shumin Wang**
Inventor's Signature: 
Date: 12/1/00
Residence: 1006 Dakota Circle
Naperville, Illinois 60563
Post Office Address: Same as above.
Citizenship: *United States of America*

36/25c/pdet

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 96098CIPDIV)

Applicant: Gautam S. GROVER et al.
Serial No.: Not yet assigned
Filing Date: Filed herewith
Title: COMPOSITION FOR OXIDE CMP

Certification under 37 CFR 1.10 I, Mariejose Monsalve, hereby certify that this correspondence, and any other documents and/or fees referred to as enclosed herein, are being deposited in an envelope addressed to USPTO Mail Stop/Address indicated below with the U.S. Postal Service "Express Mail Post Office to Addressee" service on <u>270C2003</u> .  (Signature of person mailing paper) EV067922341US "Express Mail" mailing label number

**REVOCATION OF PRIOR POWERS OF ATTORNEY
AND NEW POWER OF ATTORNEY BY ASSIGNEE**

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA, 22313-1450

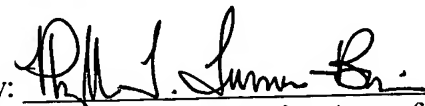
Sir/Madam:

Cabot Microelectronics Corporation, the Assignee of the entire interest for the above-identified application by virtue of documents recorded with this office on **July 20, 2000** and **July 9, 2001** under Reel/Frame(s) **011001/0414** and **011965/0773**, respectively, hereby revokes all powers of attorney previously given and appoints its patent attorneys and agents, registered with this office under **Customer Number 29050**, to prosecute and transact all business in the U.S. Patent and Trademark Office. The Assignee further requests that the attorneys of McDonnell Boehnen Hulbert & Berghoff (Customer Number 20306) be recognized as Associate Attorneys for the present case. All such powers are to be exercised separately or collectively. Copies of the assignments described above, as well as of the inventors' assignment of this invention to its prior owner are enclosed to complete the chain of title.

This authority is requested to direct all correspondence concerning this application to **Customer Number 29050** and all telephone calls to the undersigned.

Respectfully submitted,

Date: October 27, 2003

By: 
Phyllis T. Turner-Brim, Agent for Applicant
Reg. No. 39,864

CABOT MICROELECTRONICS CORPORATION
870 NORTH COMMONS DRIVE
AURORA, ILLINOIS 60504
(630) 375-5465



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 18, 2001

PTAS
MCDONNELL, BOEHNEN, HULBERT & BERGHOFF
A. BLAIR HUGHES
300 SOUTH WACKER DRIVE - 32ND FLOOR
CHICAGO, IL 60606



101776914A

UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/09/2001

REEL/FRAME: 011965/0773
NUMBER OF PAGES: 5

BRIEF: DOCUMENT PREVIOUSLY RECORDED AT REEL 011437 FRAME 0618 CONTAINED AN ERROR IN PROPERTY NUMBER 08/944,894. DOCUMENT RERECORDED TO CORRECT ERROR ON STATED REEL.

ASSIGNOR:
WANG, SHUMIN

DOC DATE: 11/10/2000

ASSIGNEE:
CABOT MICROELECTRONICS CORP.
870 COMMONS DRIVE
AURORA, ILLINOIS 60504

SERIAL NUMBER: 08994894
PATENT NUMBER:

FILING DATE: 12/19/1997
ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT

WHEREAS, I. Shumin Wang of 1006 Dakota Circle, Naperville, Illinois 60563, a citizen of the United States of America, having invented the subject matter described in the U. S. Patent Application entitled "**COMPOSITION FOR OXIDE CMP,**" the specification of which was filed on **December 19, 1997**, as United States Patent Application Serial No. **08/994,894**; and

WHEREAS, Cabot Microelectronics Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, doing business at 870 N. Commons Drive, Aurora, Illinois 60504, is desirous of acquiring the entire right, title and interest in and to said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the improvements therein contained.

NOW THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) lawful money of the United States and other valuable considerations, in hand paid to me, the receipt and sufficiency whereof is hereby acknowledged, I, Shumin Wang, have sold, assigned and transferred and do hereby sell, assign and transfer unto Cabot Microelectronics Corporation, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, and any and all other applications for Letters Patent on said invention, in whatsoever countries, including all provisional, divisional, renewal, substitution, continuation, continuation-in-part, reissue, re-examination and Convention applications based upon said invention or upon said application, to the full end of the term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention, said application and said Letters Patent, the same to be held and enjoyed by Cabot Microelectronics Corporation, its successors and assigns, the same as it would have been held and enjoyed by me if this assignment and sale had not been made.

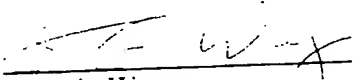
And I hereby authorize Cabot Microelectronics Corporation, to file patent applications in any or all countries on any or all of said invention in my name or in the name of Cabot Microelectronics Corporation, or otherwise as Cabot Microelectronics Corporation, may deem advisable, under any International Convention or otherwise.

And I hereby authorize the Commissioner of Patents of the United States and the empowered officials of all other governments to issue or transfer all said Letters Patent to Cabot Microelectronics Corporation, as assignee of the entire right, title and interest therein or otherwise as Cabot Microelectronics Corporation, may direct, in accordance with this instrument of assignment.

I hereby represent and warrant that there are no rights or interests inconsistent with the rights and interests granted herein and that I will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interest granted herein, and that I, Shumin Wang have sold, assigned and transferred and do hereby sell, assign and transfer unto Cabot Microelectronics Corporation, its successors and assigns, any further documents or instruments and do any and all further acts that may reasonably be deemed necessary by Cabot Microelectronics Corporation to enable Cabot Microelectronics Corporation, its successors or assigns, to file applications for the invention in any country where it may elect to file such applications, and that may be necessary to vest in Cabot Microelectronics Corporation, its successors and assigns, the title herein conveyed or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

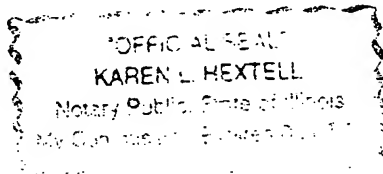
And I further covenant and agree, in consideration of the premises, that I, my executors and administrators, will at any time, upon request, communicate to Cabot Microelectronics Corporation, its successors and assigns, any facts relating to the invention and the improvements contained therein and the history thereof, known to me or my executors and administrators, and that I will testify as to the same in any interference or other litigation when requested so to do by Cabot Microelectronics Corporation, its successors and assigns.


IN TESTIMONY WHEREOF, I, Shumin Wang, have hereunto set my hand and seal
this 11 day of ~~October~~, 2000.


Shumin Wang

STATE OF ILLINOIS)
) ss.
COUNTY OF DU PAGE)

On this 11 day of ~~October~~, 2000, before me personally appeared **Shumin Wang**,
before me known and known to me to be the individual described herein and who executed the
foregoing instrument, and she duly acknowledged to me that she executed the same for the
purpose therein set forth.




NOTARY PUBLIC
My Commission Expires: 12/31/01

96098cpage.doc



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 04, 2000

PTAS



CABOT CORPORATION
MICHELLE B. LANDO
157 CONCORD ROAD
BILLERICA, MASSACHUSETTS 01821

UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/24/2000

REEL/FRAME: 011001/0414
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
CABOT CORPORATION

DOC DATE: 03/27/2000

ASSIGNEE:
CABOT MICROELECTRONICS CORPORATION
870 N. COMMONS DRIVE
AURORA, ILLINOIS 60504

SERIAL NUMBER: 08891649
PATENT NUMBER: 6126853

FILING DATE: 07/11/1997
ISSUE DATE: 10/03/2000

SERIAL NUMBER: 09503996
PATENT NUMBER:

FILING DATE: 02/14/2000
ISSUE DATE:

SERIAL NUMBER: 09501221
PATENT NUMBER:

FILING DATE: 02/10/2000
ISSUE DATE:

SERIAL NUMBER: 08944036
PATENT NUMBER:

FILING DATE: 09/29/1997
ISSUE DATE:

SERIAL NUMBER: 09487018
PATENT NUMBER:

SERIAL NUMBER: 08891468
PATENT NUMBER: 6068787

SERIAL NUMBER: 09366588
PATENT NUMBER:

SERIAL NUMBER: 09084630
PATENT NUMBER:

SERIAL NUMBER: 08994894
PATENT NUMBER:

SERIAL NUMBER: 09062327
PATENT NUMBER: 6062968

SERIAL NUMBER: 09114003
PATENT NUMBER: 6126532

SERIAL NUMBER: 09105060
PATENT NUMBER:

SERIAL NUMBER: 08901803
PATENT NUMBER: 6083419

SERIAL NUMBER: 09086659
PATENT NUMBER:

SERIAL NUMBER: 09440525
PATENT NUMBER:

SERIAL NUMBER: 09040630
PATENT NUMBER:

SERIAL NUMBER: 09105555
PATENT NUMBER: 6063306

SERIAL NUMBER: 09105065
PATENT NUMBER:

SERIAL NUMBER: 09113248
PATENT NUMBER: 6117000

SERIAL NUMBER: 09425473
PATENT NUMBER:

SERIAL NUMBER: 60148813
PATENT NUMBER:

SERIAL NUMBER: 09405249
PATENT NUMBER:

FILING DATE: 01/19/2000
ISSUE DATE:

FILING DATE: 07/11/1997
ISSUE DATE: 05/30/2000

FILING DATE: 08/04/1999
ISSUE DATE:

FILING DATE: 05/26/1998
ISSUE DATE:

FILING DATE: 12/19/1997
ISSUE DATE:

FILING DATE: 04/17/1998
ISSUE DATE: 05/16/2000

FILING DATE: 07/10/1998
ISSUE DATE: 10/03/2000

FILING DATE: 06/26/1998
ISSUE DATE:

FILING DATE: 07/28/1997
ISSUE DATE: 07/04/2000

FILING DATE: 05/29/1998
ISSUE DATE:

FILING DATE: 11/15/1999
ISSUE DATE:

FILING DATE: 03/18/1998
ISSUE DATE:

FILING DATE: 06/26/1998
ISSUE DATE: 05/16/2000

FILING DATE: 06/26/1998
ISSUE DATE:

FILING DATE: 07/10/1998
ISSUE DATE: 09/12/2000

FILING DATE: 10/22/1999
ISSUE DATE:

FILING DATE: 08/13/1999
ISSUE DATE:

FILING DATE: 09/27/1999
ISSUE DATE:

011001/0414 PAGE 3

SERIAL NUMBER: 60142706
PATENT NUMBER:

SERIAL NUMBER: 09504058
PATENT NUMBER:

SERIAL NUMBER: 09429188
PATENT NUMBER:

SERIAL NUMBER: 09428965
PATENT NUMBER:

SERIAL NUMBER: 09440401
PATENT NUMBER:

SERIAL NUMBER: 60169382
PATENT NUMBER:

SERIAL NUMBER: 60148878
PATENT NUMBER:

SERIAL NUMBER: 60172540
PATENT NUMBER:

FILING DATE: 07/07/1999
ISSUE DATE:

FILING DATE: 02/14/2000
ISSUE DATE:

FILING DATE: 10/28/1999
ISSUE DATE:

FILING DATE: 11/04/1999
ISSUE DATE:

FILING DATE: 11/15/1999
ISSUE DATE:

FILING DATE: 12/07/1999
ISSUE DATE:

FILING DATE: 08/13/1999
ISSUE DATE:

FILING DATE: 12/17/1999
ISSUE DATE:

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ASSIGNMENT OF PATENT APPLICATIONS

Whereas, CABOT CORPORATION, hereinafter "ASSIGNOR," a corporation organized and existing under the laws of Delaware having its principal office at 75 State Street, Boston, Massachusetts 02109, is the sole and exclusive owner of record in the United States Patent and Trademark Office for the applications for Letters Patent of the United States of America listed on Schedule A attached.

CABOT MICROELECTRONICS CORPORATION, hereinafter "ASSIGNEE," a corporation organized and existing under the laws of Delaware and having a principal office at 870 N. Commons Drive, Aurora, Illinois 60504, is desirous of acquiring all right, title and interest in, to and under said aforementioned patent applications and the inventions respectively covered thereby.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, and the successors, assigns and legal representatives of ASSIGNEE, the entire right, title and interest in and to the applications for Letters Patent of the United States of America listed on Schedule A attached and the inventions covered thereby, and in and to all Letters Patents to be obtained from said applications, including any continuations, divisions, continuations-in part claiming priority thereto, as well any reissues or reexaminations thereof (collectively referred to hereinafter as the "PROPERTY"), the same to be held and enjoyed by ASSIGNEE for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and legal representatives, to the end of the terms for which said PROPERTY has been or will be granted, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this assignment and sale had not been made; together with all claims by ASSIGNOR for damages by reason of infringement of the PROPERTY with the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives.

ASSIGNOR agrees that it will, by its officers, employees, legal representatives or other persons duly authorized, communicate to ASSIGNEE or the representatives thereof, any facts known to it respecting said PROPERTY, and will, upon request and at ASSIGNEE's expense, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally perform all other further lawful acts, deemed necessary and expedient by ASSIGNEE or by counsel of ASSIGNEE, to assist or enable ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned. ASSIGNOR additionally agrees to execute short form copies of this assignment or portions thereof regarding any or all of the aforementioned PROPERTY, as required by ASSIGNEE in the future.

ASSIGNOR agrees to waive all its rights and privileges to attack the utility, novelty, validity or enforceability of any or all of the aforesaid PROPERTY which mature from the listed applications which ASSIGNOR has assigned as against any one claiming a right under any or all of the aforementioned PROPERTY under ASSIGNOR's assignment or grant.

IN WITNESS WHEREOF, CABOT CORPORATION has caused its name to be signed by its duly authorized representative and its corporate seal to be affixed hereto this 27th day of March, 2000.

CABOT CORPORATION

By: Samuel W. Bodman

Name: ~~Sam~~ Samuel W. Bodman

Title: Chairman and CEO

[CORPORATE SEAL]

Witnessed:

By: Brian A. Berube

Name: Brian A. Berube

Title: Counsel

UNITED STATES OF AMERICA :

COMMONWEALTH OF MASSACHUSETTS :

COUNTY OF SUFFOLK :

On this 27th day of March, 2000, before me, a Notary Public in and for the above mentioned county and state, personally appeared Samuel W. Badman, to me known and known to me to be the person who signed the foregoing Assignment on behalf of CABOT CORPORATION and who being duly sworn by me, did depose and say that ~~s/he~~ is the Chairman of the Board and Chief Executive Officer of CABOT CORPORATION, the company described in and on whose behalf ~~s/he~~ has executed the foregoing instrument; and that ~~s/he~~ is so authorized to execute this instrument on behalf of said corporation.

Carol F. Doucette

Notary Public

My Commission Expires 3/20/2003

[NOTARIAL SEAL]

mmdappln2sg2.doc

Schedule A

<u>Docket No.</u>	<u>Appln. No.</u>	<u>Appln. Date</u>
96071ACIP	08/891649	11JL1997
96071ACIP2	08/944036	29SE1997
96071ADIV	09/366588	04AU1999
96073CIP2DIV	09/503996	14FE2000
96073CIPDIV	09/487018	19JA2000
96092	09/084630	26MY1998
96092DIV	09/501221	10FE2000
96093CIP3	08/891468	10JL1997
96098CIP	08/994894	19DE1997
96119CIP1	09/062327	17AP1998
96119CIP2	09/114003	10JL1998
96125	09/105060	26JE1998
97045	08/901803	28JL1997
97045CIP	09/086659	29MY1998
98003	09/440525	15NO1999
98010	09/040630	18MR1998
98011	09/105555	26JE1998
98012	09/105065	26JE1998
98068	09/113248	10JL1998
98116	09/425473	22OC1999
98124P	60/148813	13AU1999
98125	09/405249	27SE1999
98126P	60/142706	07JL1999
98134	09/504058	14FE2000

Schedule A Cont'd.

<u>Docket No.</u>	<u>Appln. No.</u>	<u>Appln. Date</u>
99001	09/429188	28OC1999
99073	09/428965	04NO1999
99074	09/440401	15NO1999
99077P	60/169382	07DE1999
99096P	60/148878	13AU1999
99106P	60/172540	17DE1999



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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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Washington, D.C. 20231

AUGUST 05, 1998

PTAS



CABOT CORPORATION
MICHELLE B. LANDO
LAW DEPT.
157 CONCORD ROAD
BILLERICA, MA 01821

AUG 12 1998

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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/21/1998

REEL/FRAME: 9205/0642
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
GROVER, GAUTAM S.

DOC DATE: 05/14/1998

ASSIGNOR:
MUELLER, BRIAN L.

DOC DATE: 05/14/1998

ASSIGNEE:
CABOT CORPORATION
75 STATE STREET
BOSTON, MASSACHUSETTS 02109

SERIAL NUMBER: 08994894
PATENT NUMBER:

FILING DATE: 12/19/1997
ISSUE DATE:

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

COMPUTED ENTRY 8/19/98 DCL
FILE UPDATED 8/17/98

ASSIGNMENT

WHEREAS, we, Gautam S. Grover of 925 Shoreline Drive, Aurora, Illinois 60504, a citizen of the India, and Brian L. Mueller of 3235 Blaine Court, Aurora, Illinois 60504, a citizen of the United States of America, having invented the subject matter described in the U. S. Patent Application entitled "**COMPOSITION FOR OXIDE CMP**," the specification of which was filed on **December 19, 1997** as United States Patent Application Serial No. **08/994,894**; and

WHEREAS, Cabot Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, doing business at 75 State Street, Boston, Massachusetts 02109, is desirous of acquiring the entire right, title and interest in and to said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the improvements therein contained.

NOW THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) lawful money of the United States and other valuable considerations, in hand paid to us, the receipt and sufficiency whereof is hereby acknowledged, we, Gautam S. Grover and Brian L. Mueller have sold, assigned and transferred and do hereby sell, assign and transfer unto Cabot Corporation, its successors and assigns, the entire right, title and interest in and to said application and the invention therein contained, including the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, and any and all other applications for Letters Patent on said invention, in whatsoever countries, including all provisional, divisional, renewal, substitution, continuation, continuation-in-part, reissue, re-examination and Convention applications based upon said invention or upon said application, to the full end of the term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention, said application and said Letters Patent, the same to be held and enjoyed by Cabot Corporation, its successors and assigns, the same as it would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize Cabot Corporation, to file patent applications in any or all countries on any or all of said invention in our name or in the name of Cabot Corporation, or otherwise as Cabot Corporation, may deem advisable, under any International Convention or otherwise.

And we hereby authorize the Commissioner of Patents of the United States and the empowered officials of all other governments to issue or transfer all said Letters Patent to Cabot Corporation, as assignee of the entire right, title and interest therein or otherwise as Cabot Corporation, may direct, in accordance with this instrument of assignment.

We hereby represent and warrant that there are no rights or interests inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interest granted herein, and that we, Gautam S. Grover and Brian L. Mueller, bind ourselves and our heirs, executors, administrators and legal representatives, as the case may be, to execute and deliver to Cabot Corporation, its successors and assigns, any further documents or instruments and do any and all further acts that may reasonably be deemed necessary by Cabot Corporation, to enable Cabot Corporation, its successors or assigns, to file applications for the invention in any country where it may elect to file such applications, and that may be necessary to vest in Cabot Corporation, its successors and assigns, the title herein conveyed or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

And we further covenant and agree, in consideration of the premises, that we, our executors and administrators, will at any time, upon request, communicate to Cabot Corporation, its successors and assigns, any facts relating to the invention and the improvements contained therein and the history thereof, known to us or our executors and administrators, and that we will testify as to the same in any interference or other litigation when requested so to do by Cabot Corporation, its successors and assigns.

IN TESTIMONY WHEREOF, I, Gautam S. Grover, have hereunto set my hand and seal this 14th day of May, 1998.

G. S. Grover
Gautam S. Grover

STATE OF ILLINOIS)
) ss.
COUNTY OF DU PAGE)

On this 14th day of May, 1998, before me personally appeared **Gautam S. Grover**, to me known and known to me to be the individual described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the purpose therein set forth.



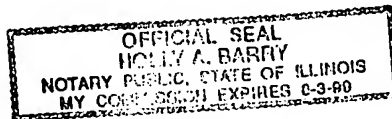
Holly Barry
NOTARY PUBLIC
My Commission Expires: 8/3/99

IN TESTIMONY WHEREOF, I, Brian L. Mueller, have hereunto set my hand and seal this 14th day of May, 1998.

Brian L. Mueller
Brian L. Mueller

STATE OF ILLINOIS)
) ss.
COUNTY OF DU PAGE)

On this 14th day of May, 1998, before me personally appeared **Brian L. Mueller** to me known and known to me to be the individual described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the purpose therein set forth.



Holly Barry
NOTARY PUBLIC
My Commission Expires: 8/3/99

assign20mmd